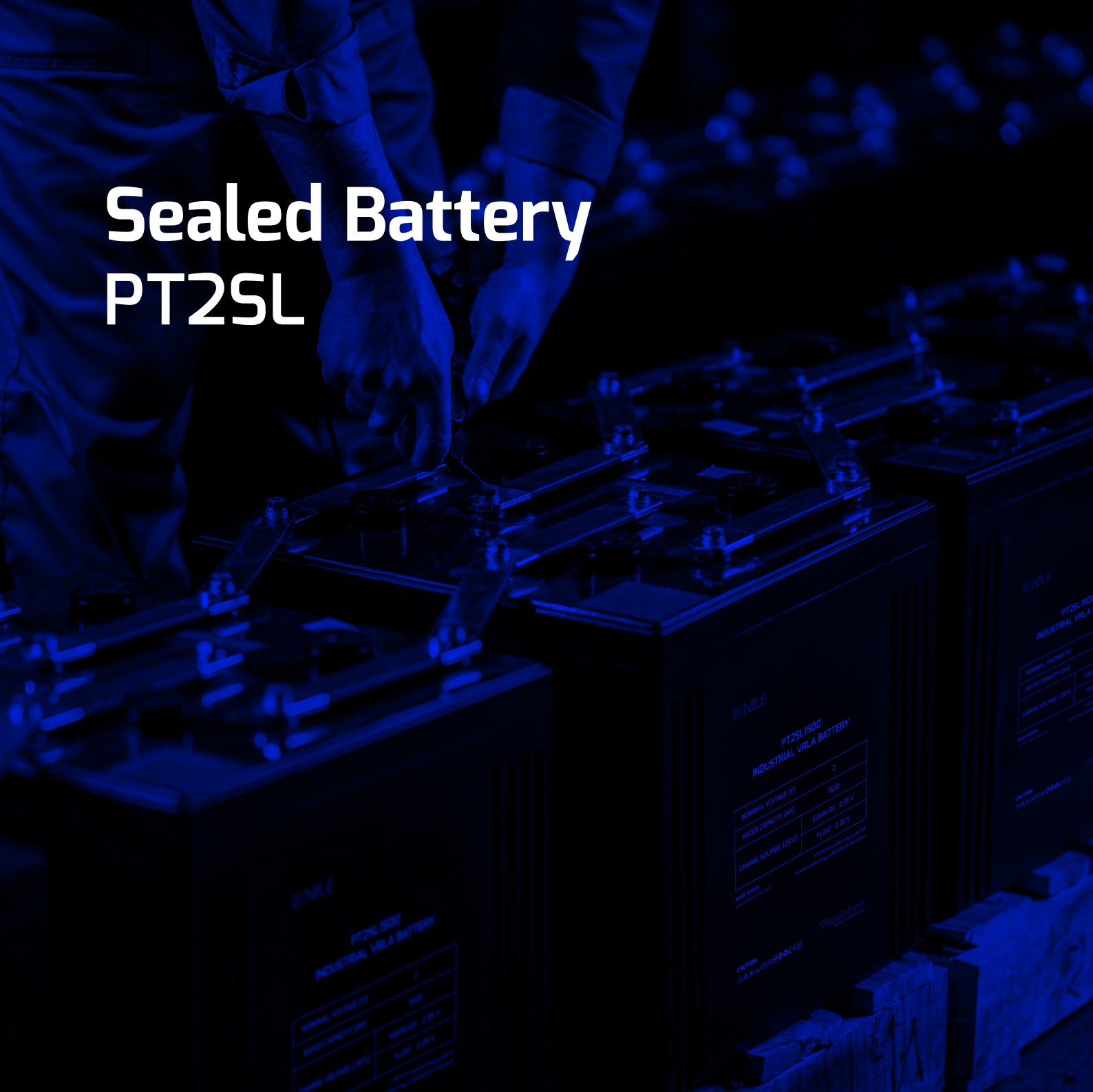


Sealed Battery PT2SL

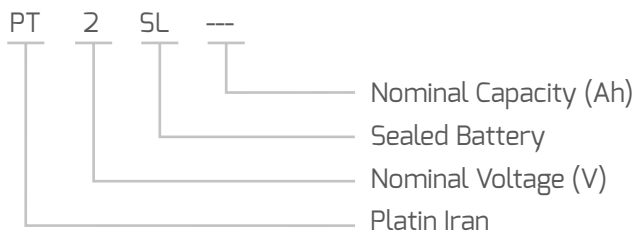




Compliant Standards

- IEC 60896-21 & 22
- INSO 4868-21 & 22
- BS 6290-4
- ISO 9001

Indication of type



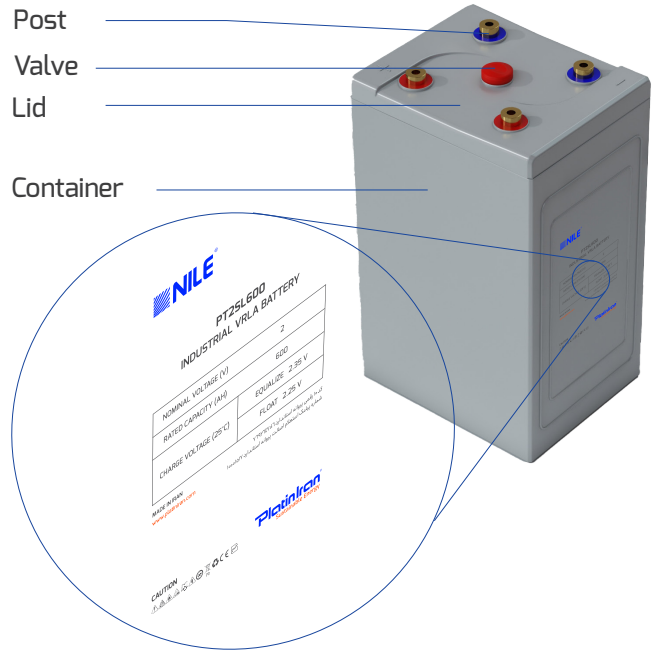
Main Applications

- Power and Utility
- UPS system
- Telecom
- Data Center
- Railway, Broadcast and Television system
- Emergency Power System

Features

- Grid alloy is corrosion proof, no pollution and less water loss.
- AGM technology is applied.
- Reliable seal performance, no acid spillage, recombination efficiency reaches 99%.
- The remaining capacity above 94% after storage for 3 months (25°C)
- Flexible connectors and convenient installation
- Better discharge characteristic than normal VRLA batteries
- Non-spillable construction design.
- Safety valve installation for explosion proof.
- Higher safety and reliable construction.
- Extra durability and deep cycle ability for heavy demand applications.
- Low self-discharge
- Flexible design for multiple installation

Construction



Product characteristics

- Nominal voltage: 2V
- Max charging current allowed: 0.2C₁₀ (A)
- Cycle life: 1200 at 80% DOD (25°C)
- Float voltage: 2.25 V/Cell (25°C)
- Equalize voltage: 2.35 V/Cell (25°C)
- Self-discharge: ≤ 2% per month (25°C)
- Terminal torque: 15 ± 1.0 N.m
- Temperature: -15°C to +45°C
- Container material: ABS (UL94-V0 optional)

Technical Information

Type	Nominal Voltage (V)	Nominal Capacity* (Ah) at 25°C	Float Voltage (25°C)	Equalize Voltage (25°C)	Charge Current (A) at 25°C		Internal Resistance ±0.05 (mΩ)	Dimension** (mm)				Weight ±2% (kg)
					Normal	Max		Length	Width	Height	Total Height	
PT2SL120	2	120	2.25 V/Cell	2.35 V/Cell	12	18	1	200	115	357	370	13.5
PT2SL200	2	200			20	30	0.65	200	115	357	370	16.4
PT2SL250	2	250			25	37.5	0.54	200	115	357	370	17.9
PT2SL300	2	300			30	45	0.49	185	165	342	355	22.2
PT2SL350	2	350			35	52.5	0.47	185	165	342	355	24.2
PT2SL420	2	420			42	63	0.35	185	165	342	355	27.5
PT2SL500	2	500			50	75	0.34	180	220	357	370	34
PT2SL600	2	600			60	90	0.33	180	220	357	370	38.5
PT2SL1000	2	1000			100	150	0.30	175	465	364	386	60
PT2SL1500	2	1500			150	225	0.20	350	400	374	394	108
PT2SL2000	2	2000			200	300	0.15	350	485	374	400	129
PT2SL3000	2	3000			300	450	0.10	350	705	334	360	197

*10-hour discharge nominal capacity (C₁₀)

**length of the battery is considered as parallel to the plates, while width of the battery is perpendicular to the plates.

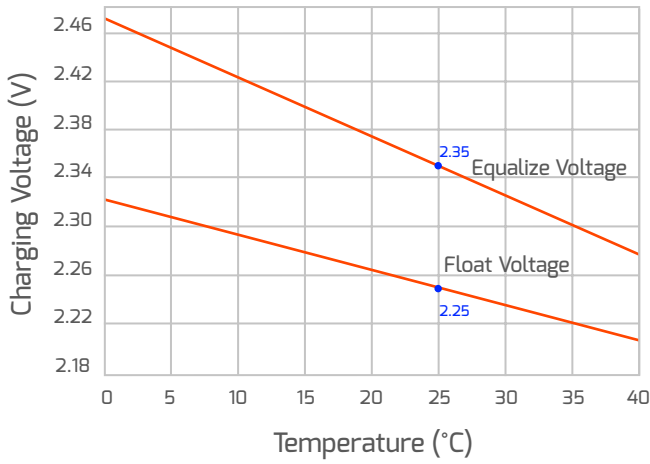
Discharge Current Rates - Amperes (25°C)

Type	1 Hour	3 Hour	5 Hour	8 Hour	10 Hour
PT2SL120	61.2	32	21.8	14.9	12
PT2SL200	121	53.5	37.1	25.8	20
PT2SL250	151.5	65.4	45.8	32.4	25
PT2SL300	181	83.4	53.7	39.4	30
PT2SL350	211	91.9	64.2	46.6	35
PT2SL420	254	111.2	74.5	55.2	42
PT2SL500	314	137	87.7	62.4	50
PT2SL600	366	160.6	107.4	77.4	60
PT2SL1000	610	273.6	180	127.5	100
PT2SL1500	905	410.4	269.7	192	150
PT2SL2000	1205	537.1	364.3	252	200
PT2SL3000	1810	810.3	556	382	300
End Voltage (V/Cell)	1.60	1.65	1.70	1.75	1.80

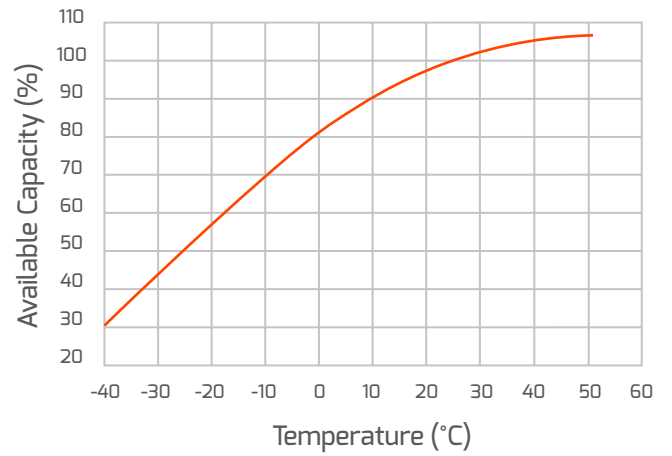
Charging Voltage at Different Temperatures

Temperature (°C)	Float Voltage (V/Cell)	Equalize Voltage (V/Cell)
1 - 5	2.31	2.45
6 - 10	2.30	2.43
11 - 15	2.28	2.40
16 - 20	2.27	2.38
21 - 25	2.25	2.35
26 - 30	2.24	2.33
31 - 35	2.22	2.30
36 - 40	2.21	2.28

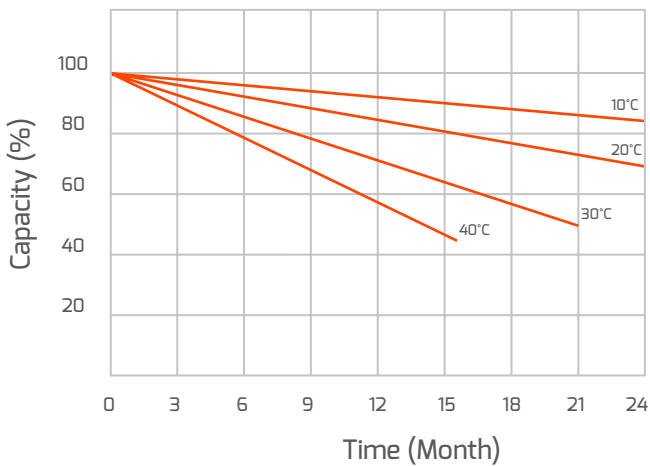
Float Voltage / Equalize Voltage Vs Temperature



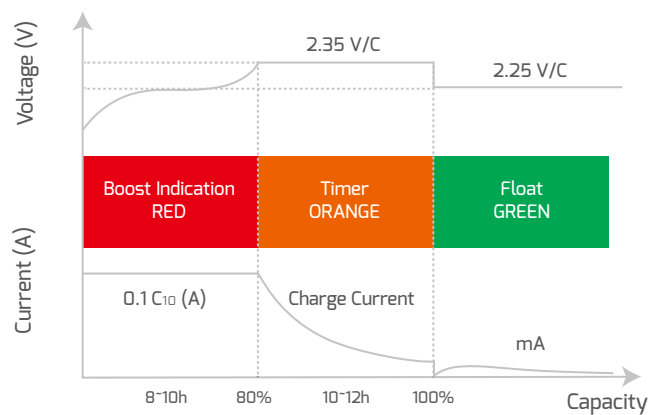
Available Capacity (10h rate and Voltage 1.80V) Vs Ambient Temperature



Self Discharge Storage Time Vs Residue Capacity



Charge Characteristics of 100% DoD with Current of 0.1C₁₀ (A) and Limit Voltage of 2.35 V/Cell (25°C)



Discharge performance Curves at Different Discharge Rates (25°C)

